

FIGURE 1A

1 GAATTGGCC CTCGAGGCC AGAATTCGGC ACAGGGCGC GCGCCGAGC CAGGAGAGC GCTGTCAT CCCGGCCAT GGGGCTCTCG
 CTTAACCGG GAGCTCCGGT TCTTAAGCCG CGACAGCGA GGGCCGAG GIGGGCGGTA CCCCAGAGG
 5 TipSerProa rgProProle uLeuMetIle LeuLeuLeuV alleuSerle utrLeuPro LeuGlyAlaG lyAsnSerle uAlaThrGlu AsnArgPheVal
 201 TGACAGCTG TACCCAGGGC AGAAAGAAAT GCGAGGCTAA TCCCAGCTGC AAGGCTGCCT ACCAGCACCT GGGCTCTGC ACCTCCAGTT TAAGCAGGGC
 ACTTGTCGAC ATGGGTCCGG TCTTCTTTA CGCTCCGGATT AGGGCAACG TTCCGACGA TGGCTGTGGA CCCGAGGACG TGGAGGTCAA ATTGTCCGG
 39 AsnSerCy sThrGlnAla ArgLysLysC ysGluAlaAs nProAlaCys LysAlaAlaLys VirginHisle uGlySerCys ThrSerSerL euserArgPro
 301 GCTGCCCTTA GAGGAGCTG CCATGCTGC AGACTGCCA GAGGCAGAG AACAACTCG GAACAGCTCT CTGATAGACT GCAGSGTGCCTA TCGGGCATG
 CGAGGGAAAT CTCCTCAGAC GTTACAGAC TCGACGGAT CTCCGCTC TTGTTGAGTC GACTATCTGA CGTCCACGGT AGCCCGCTAC
 72 LeuProLeu GluGluSerA 1ametSerI aaspCysLeu GluAlaAlaG lugInLeuAr gAsnSerSer LeuLeuAspCysLeu ysArgCysHi sArgArgMet
 401 AACGACCAAG CTACCTGCT GGACATTAT TGGACCGGTC ACCCTGGCAAG TGGACGGGGC AAGCCTGGT GACTACGGAT TGGATGCTC ACCTATGAA GACACAGTGA
 TTCGTTGGTC GATGGACAGA CCTGTAAATA ACCTACAGAG TGGGATACTT CTGATGCTCA ACCTACAGAG TGGGATACTT CTGTTGTC
 105 LysHisGlnA 1aThrCysLe wAspIleTyr TrpThrValH isProAlaAla gSerLeuGly AspTyrGluL euaspValSe rProTyrGlu AspThrValH
 501 CCAGCAAACC CTGGAAAATG AATCTTAGCA AGTTGACAT GCTCAACCA GACTCGGACC TCTGCCCTAA ATTGCTATG CTGTTACTC TTACCGACAA
 GGTGTTGG GACCTTTAC TTAGATCTGT TCAACTGTAA CGAGTTGGT CTGAGCCTGG AGACGGAGTT TAAACGATAC GACCATGAG AAGTGTGTT
 139 SerLysPr otTpyLysMet AsnLeuSerL ysLeuAsnMe tLeuLysPro AspSerAspL euCysLeuL yspheAlaMet LeuCysThrL euHisAspLys
 601 GTGTGACCGC CTGGCAAGG CCTACGGGA GGCATGCTCA GGGATCCGCT GCCAGGCCA CCTCTGCCTA GCCCAGTGC GCTCTTCTT TGAGAAGGCA
 CACACTGGCG GAGGGTTCG GGATGCCCTT CGCTACGGAT CCCTAGGGGA CGGTGCGGT GGAGACGGAT CGGGTGCAGC CGAGGAAGAA ACTCTTCCGT
 172 CysAsparg LeuArgLysA 1aTyrglyG1 uAlaCysSer GlyIleArgC ysGlnArgHi sLeuCysLeu AlaGlnLeu rgsarPhePheL egluLysAla
 701 GCAGAGTCCC AGCCTCAGGG TCTGCTGCTG TGICCCCTGTG CACCAAGA TGCGGGCTGT GGGGAGGGC GGGTAAACAC CATGGCCCCC AGTTGGCC
 CGTCTCAGGG TCGCAGTCCC AGACGAGGAC ACAGGGACAC GTGGCTCTC ACAGCCGACA CCCCTCGCCG CGCGATGTG GTAGGGGG TCACGGGG
 205 AlaGluSerH isAlaGlnG1 yLeuLeuLeu CysProCysA 1aProGluAs pAlaGlyCys GlyGluArgA rgArgAsnH rIleAlaPro SerCysAlaLeu
 801 TGCCCTCTGT AACCCCCAAAT TGCCTGGATC TGGGGAGCTT CTGGCGTGG GACCCCTGTG GCAGATCAGC CCTGATGGAC TTCCAGACCC ACTTCATCC
 ACGGAGACA TTGGGGTTA ACGGACCTAG ACGGCTCGAA GACGGCACGC CTGGGAACA CGCTCTAGTC GGACTACTG AACGTCGG TGAGCTAGG
 239 ProSerVa 1ThrProAsn ,CysLeuAspL euArgSerPh eCysArgAla AspProLeu ysArgSerar gleuMetAsp PheGlnThrH isCysHiPro
 901 TATGGACATC CTGGGACTT GTGCAACTGA GCAGTCCAGA TGTCTGGGG CATACTGGG GCTGATGGG ACTGCCCCATGA CCCCAAACCTT CATGAGGAAG
 ATTAAGTGTAG GAAACCTGAA CACGTTGACT CGTCAGGTCT ACAGACGCC GTAGGGACCC CGACTAACCC TGACGGTACT GGGGTTGAA GTAGTCGTT
 272 MetAspIle LeuGlyLysC ysAlaThrG1 uGlnSerArg CysLeuArgA 1aTygLeuG1 yLeuIleGly ThrAlaMetT hrProAsnPh eIleSerLys

1001 GTCAACACTA CTGTTGCCCTT AAGCTGCACC TGCCGAGGCA GGGCAACCT ACAGGACGAG TGTGAAACAGC TGAAAGGTC CTTCTCCAG AACCCCTGCC
 CAGTTGTGAT GACAAACGGAA TTCGACGGGG ACGGTCCGT CCGCGGTTGGA TGTCTGTGTC ACACCTGTC ACCTTCCAG GAAGGAGGTC TGGGACGG
 305 ValAsnThr hrvAlaIale userCysThr CysArgLys erGlyAsnle uGlnAspGlu CysGluGlnL eGluArgSe rPheSerGln AsnProCysLeu
 1101 TCGTGAGGC CATTGAGCT AAGATGCCCTT TCCACAGACA GCTCTCTCC CAGGACTGGG CAGACTCTAC TTTTCAGTG GTGCAGCAGC AGAACAGCAA
 AGCACCTCCG GAACTGCTGA TTCTACGCAA AGCTCTCTG CGAGAAGAGG GTCTGACCC GTCTGAGATG AAAAAGTCAC CACGTCGTCG TCTTGTGTT
 339 ValGluAl aileAlaIa LysMetArgP heHisArgI nleuPheSer GluAspPtpa laAspSerTh rPheSerVal ValGlnGlnL inAsnSerAsn
 1201 CCCGTGCTCTG AGACTGCCAG CCAGGCTTAC CATTCTTCTT TTCTCCATCC TTCCCTTGAT TCTGTCGAG ACCCTCTGTT AGCTGGGCTT CCTCAAGGGTC
 GGGACGAGAC TCTGACGGTC GGTCCGAGG GAAAGAGGAGA AGAGGTTAG AGGAACTA AGACGCGAC TGGAGACGC TGGAGACCA TCGACCCGAA GGAGTCCCCAG
 372 ProAlaLeu ArgLeuGlnP roArgLeuPr oileLeuSer PheSerIleL euProLeuL eLeuLeuGln ThrLeuTrp
 1301 CTTTGCTCCTC TCCACCACAC CCAGACTGAT TCTGAGCTG TGTTGGGAGA GAACCGGCA GCCTGTTGAA GAAGACGGAG CGTGCCTAC ACCACCCCT
 GAAACAGGAG AGGTGGTGTG GGTCTGACTA AACGTCGAC ACCACCCCT CTTGAGCGGT CGGAACCTT CTTCTGCGTC GCACGAGTGT TCGTTGGCC
 1401 AACCACCCAG GCATTCCGCA GCACATCCCC TCTGTCAG AGAGGCTT AGAAGTGGG GCTGTGACCC TTCCGATCTT GAGGGCTAG TTTCAAACC
 TTGGTTGGTC CGTAAGGGGT CGTGTAGGG AGACGAGTC TTCTCCAGAA TCTTCACCTC CGACACTGGG AAGGTAGGA CTCGCCGATC AAAAGTTGG
 1501 TCCCTTGCCC CTGCTTCCTT CTGCTCTCAG CTGCTCTCC TAGGAGCTT GTGGGTCTAG TTTGCCTC TGTCTGATG GAGGTTAGC GCTACCTCC
 AGGGAACGGG GACGAAGGAA GACCGAGTC GACGGAGGAGG AACCTCTGAA CACCCAGGTC AAAAGGAAG ACAAGACTAC CACTAATGCG CGAGTGGAGG
 1601 AGCGCTCTT CCTGTTCCC AGGACCAACCC AGAACCTAAG GATCAGTCA TTCCCTGTT CCTTCCAG GAAGGAGGTC TAAGGGTTCT GAGGTGACTG
 TCGCGAAGAA GGACAAGGG TCTGTGTTGG TCTCGATC CTAGTCAGT AAGGGACAC GGAAGAGTC CTTCCGTGG ATTCCAGA CTCCACTGAC
 1701 AGAAAAATGT TTCTTGTG TGGAAAGGCTG GTGCTCCAGC CTCCACGGTCC CTCTGAATTG AAGATAAAA CCTGCTGGTG TCTTGACTGC TCTGCCAGGC
 TCTTTTACA AAGGAAACAC ACCTTCGGAC CACGGGTG GAGGTGCAGG GAGACTTAC TTCTATTTT GAGCAGGACAC AGAACTACG AGACGGTCCG
 1801 AATCCCTGAACT ATTGGGCAT GAAGAGCTA AGCTTTGG TCTTGTAA CTCTTATAC TGTCCCCAA TTCCCTAGT CCCTGGTC ATGATTAAC
 TTAGGACTTG TAACCCGTA CTCTGATT TCAGAAACCC AGAACAAATT GAGGATAATG ACAGGGTTT AGGGGATCA GGGAAACCCAG TACTAATTG
 1901 ATTTTGACTT AAAAAAAA AAAAAAAA AAAAAA AAAAAA

FIGURE 1B

rGFRa1	1	MFELATLYFALPELDLILMSAEVSGG
rGFRa2	1	MFELATLYFALPELDLILMSAEVSGG
mGFRa3	1	MFELATLYFALPELDLILMSAEVSGG
rGFRa1	49	LRHOOCVAGKETNSHESITSGLEAKDECRSAMETKOKSLYNGCCKAGMKREKNCTRYWSMYQ
rGFRa2	60	LRROCLLAGDRADTNTMLANKECOAALEVLQESPLYDACKRGMKKELOCLQIYWSIHL
mGFRa3	61	LGSSCTSSLSRPLP-LEESAMSADCLEAAEQLRNPSSQIDCRCHBRAMKHOATCLDIYWTVHP
rGFRa1	109	SKYRSAYITPCTTSMSNEV-CNRARKCHKALROFFDKVPAKHSYGMFLCSC-ADIACTER
rGFRa2	115	KKTASSYISICNREISPTERCNRAKCHKALROFFDKVPAVSTKSNHCLDAKACNLNDNC
mGFRa3	120	ARSLGDOYEDVSPYEDTVTSTSKPKWMNENENLNLK-----PDSDLCLKFAMLTLDK
rGFRa1	168	RATQITIVPVCSYEEERERPNCTSQADSCCKTNYICASALADFFTNCOPESRSVSNCILKENYAD
rGFRa2	175	RROTILPSCSYEDKEKPNCLDLRSLCSTDHLCASALADFHANCHASYRTITSCPADNYQA
mGFRa3	173	RANTIAAPSC-ALPSSVTNCNLDLASFCRADPPLCARSALMDFQTHCHP-MDILGTC-ATEQSA
rGFRa1	225	CLAYASGLTGIVMTPNYVDS-SSLSVAPWCDCSNSGNQLEDCFLKFTNFKDNTCTLNAT
rGFRa2	233	CLGGSYAGMIGFDMTPNYVDSNPTGIVVSPWCNCRGSGNMEEECEKFLRDPFTENPCLANA
mGFRa3	228	CLRAYLGLTGTAMTPNFIISK--VNLVALSCTCAGSGNLQDECEQLEERSFSONPCLVEAI
rGFRa1	285	QATGAGGSSVLTMWQAPPVQTTATTTAFAVKKNKPGLPAGSENEIPTHVLPPPCANLQAK
rGFRa2	293	QAFGAGGSSVLTMWQAPPVQTTATTTAFAVKKNKPGLPAGSENEIPTHVLPPPCANLQAK
mGFRa3	285	CLRAYLGLTGTAMTPNFIISK--VNLVALSCTCAGSGNLQDECEQLEERSFSONPCLVEAI
rGFRa1	343	LSKSSNSGSSSTHLCSDSDFGKDGLAGAASSHITTKSMAAPPSSCSQSSCPVLMTLAAALLSV
rGFRa2	353	QAFGAGGSSVLTMWQAPPVQTTATTTAFAVKKNKPGLPAGSENEIPTHVLPPPCANLQAK
mGFRa3	343	CLRAYLGLTGTAMTPNFIISK--VNLVALSCTCAGSGNLQDECEQLEERSFSONPCLVEAI
rGFRa1	403	LSKSSNSGSSSTHLCSDSDFGKDGLAGAASSHITTKSMAAPPSSCSQSSCPVLMTLAAALLSV
rGFRa2	410	QAFGAGGSSVLTMWQAPPVQTTATTTAFAVKKNKPGLPAGSENEIPTHVLPPPCANLQAK
mGFRa3	345	CLRAYLGLTGTAMTPNFIISK--VNLVALSCTCAGSGNLQDECEQLEERSFSONPCLVEAI
rGFRa1	463	SLCAETS
mGFRa3	392	LLQTLW

FIGURE 2

hGFRa3 1 M V R P [LN P R P] L P P V V L M L L L L P P S P L P L A A G D P L P T E S R L M N S C L Q A R K
 mGFRa3 1 - M G L S W S P R P P L L M I L L L V L S L W - L P L G A G N S L A T E N R F V N S C T Q A R K K

hGFRa3 51 C O A D P T C S A A Y H H L D S C T S S I S T P L P S E E P S V P A D C L E A A Q O L R N S S L I G
 mGFRa3 48 C E A N P A C K A A Y Q H L G S C T S S I S R P L P L E E S A M S A D C L E A A E Q O L R N S S L I D

hGFRa3 101 C M C H R R M K N O V A C L D I Y W T V H R A R S L G N Y E L D V S P Y E D T V T S K P W K M N L S
 mGFRa3 98 C R C H R R M K H O A T C L D I Y W T V H P A R S L G D Y E L D V S P Y E D T V T S K P W K M N L S

hGFRa3 151 K L N M L K P D S D L C L K F A M L C T L N D K C D R L R K A Y G E A C S G P H C Q R H V C L R Q L
 mGFRa3 148 K L N M L K P D S D L C L K F A M L C T L H D K C D R L R K A Y G E A C S G I R C Q R H L C L A Q L

hGFRa3 201 L T F F E K A A E P H A Q G L L L C P C A P N D R G C G E R R R N T I A P N C A L P P V A P N C L E
 mGFRa3 198 R S F F E K A A E S H A Q G L L L C P C A P E D A G C G E R R R N T I A P S C A L P S V T P N C L D

hGFRa3 251 L R R L C F S S O P L C R S R L V D F Q T H C H P M D I L G T C A T E Q S R C L R A Y L G L I G T A M
 mGFRa3 248 L R S F C R A D P L C R S R L M D F Q T H C H P M D I L G T C A T E Q S R C L R A Y L G L I G T A M

hGFRa3 301 T P N F V S H N V N T S V A L S C T C R G S G N L Q E E C E M L E G F F S H N P C L T E A I A A K M R
 mGFRa3 298 T P N F I S K V N T T V A L S C T C R G S G N L Q D E C E Q L E R S F S O N P C L V E A I A A K M R

hGFRa3 351 F H S Q L F S S O D W P H P T F A V M A H O N E N P A V R P O P W V P S L F S C T L P L I L L L S L W
 mGFRa3 348 F H R Q L F S S O D W A D S T F S V V Q O O N S N P A L R L O P R L P I L S F S I L P L I L L O T L W

FIGURE 3

fig 4

Jig 5

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48613 1 MVRPLNPRPLPPVVLMLLPLLPPSPLPLAAGDPLPTESRLMNSCLOARRK
48614 1 MVRPLNPRPLPPVVLMLLPLLPPSPLPLAAGDPLPTESRLMNSCLOARRK

48613 51 CQADPTCSAAYHHLDCTSSISTPLPSEEPSVPADCLEAAQQLRNSSLIG
48614 51 CQADPTCSAAYHHLDCTSSISTPLPSEEPSVPADCLEAAQQLRNSSLIG

48613 101 CMCHRRMKNQVACLOIYWTVHRARSLIGNYELDVSPYEDTVTSKPWKMNLS
48614 101 CMCHRRMKNQVACLOIYWTVHRARSLI-----.

48613 151 KLNMLKPDSOLCLKFAMLCTLNDKCDRLRKAYGEACSGPHCQRHVCLRQL
48614 127 -----DSDLCLKFAMLCTLNDKCDRLRKAYGEACSGPHCQRHVCLRQL

48613 201 LTFFEKAAEPhAQGLLLCPCAPNDRGCGERRRNTIAPNCALPPVAPNCLE
48614 170 LTFFEKAAEPhAQGLLLCPCAPNDRGCGERRRNTIAPNCALPPVAPNCLE

48613 251 LRRLCFSDPCLCRSRLVDFQTHCHPMDILGTCATEQSRCLRAYLGLIGTAM
48614 220 LRRLCFSDPCLCRSRLVDFQTHCHPMDILGTCATEQSRCLRAYLGLIGTAM

48613 301 TPNFVSNVNTSVALSCTCRGSGNLQEECEMLEGFFSHNPCLTEAIAAKMR
48614 270 TPNFVSNVNTSVALSCTCRGSGNLQEECEMLEGFFSHNPCLTEAIAAKMR

48613 351 FHSQLFSODWPHPTFAVMAHQNENPAPVRPOPWVPSLFSCTLPLILLLSLW
48614 320 FHSQLFSODWPHPTFAVMAHQNENPAPVRPOPWVPSLFSCTLPLILLLSLW

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FIGURE 4

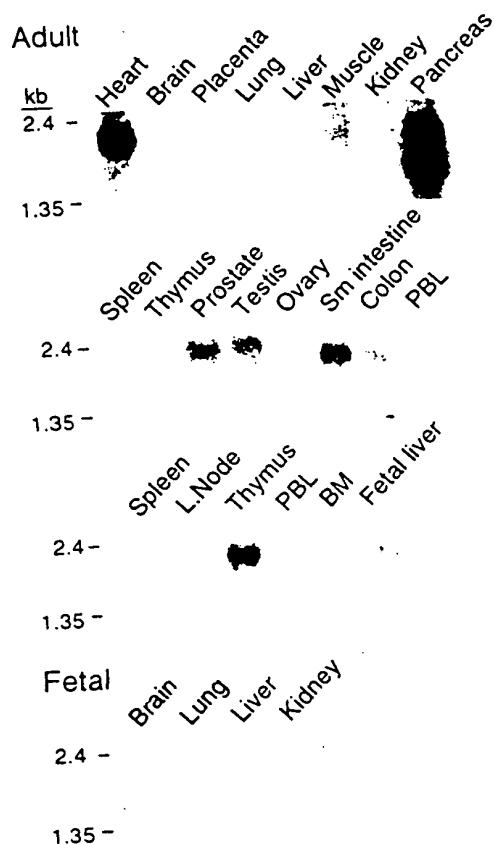
FIGURE 5A

DNA48613.orf	718	G C G C T G C C - - - G C C T G T G G C C C C C A A C T G C C T G G A G C T G C G G G C G C C T C T G
GDNFRa1.orf	685	T C C T A T G A A G A G A G G G A G A A G G C C A A C T G T T G A A T T T G C A G G A C T C C T G
GDNFRa2.orf	724	T C C T A T G A G G A C A A G G G A G A A G G C C A A C T G C C T G G A C C T G C G T G G C G T G T G
DNA48613.orf	765	C T T C T C C G A C C C G C T T T G C A G A T C A C G C C T G G T G G A T T T C C A G A C C C A C T
GDNFRa1.orf	735	C A A G A C G A A T T A C A T C T G C A G A T C T C G C C T T G C G G A T T T T T T A C C A A C T
GDNFRa2.orf	774	C C G G A C T G A C C A C C T G T G T C G T C C C G G C T G G C C G A C T T C C A T G C C A A T T
DNA48613.orf	815	G C C A T C C C A T G G A C A T C C T A G G A A C T T G T G C A A C A G A G G C A G T C C A G A - - -
GDNFRa1.orf	785	G C C A G G C C A G A G T C A A G G T C T G T C A G G C A G C T G T G T A A A A G G A A A A C T A C G C T
GDNFRa2.orf	824	G T C G A G G C C T C C T A C C A G A C G G T C A C C A G C T G C C C T G C G G A C A A T T A C C A G
DNA48613.orf	862	... T G T C T A C G A G C A T A C C T G G G G C T G A T T G G G A C T G C C A T G A C C C C A A
GDNFRa1.orf	835	G A C T T G C C T C C T C G C C T A C T C G G G G C T T A T T G G C A C A G T C A T G A C C C C A A
GDNFRa2.orf	874	G C G T T G T C T G G G C T C T A T G C T G G C A T G A T T G G G T T T G A C A T G A C A C C T A A
DNA48613.orf	909	C T T T G T C A G G C A A T G T C A - - - - - A C A C C A G T G T T G C C T T A A G C T G C A C C T
GDNFRa1.orf	885	C T A C A T A G A C T C C A G G T A - - - - - G C C T C A G T G T G G C C C C A T G G T G T G A C T
GDNFRa2.orf	924	C T A T G T G A C T C C A G G C C C C A C T G G C A T G T G G T G T C C C C C T G G T G C A G C T
DNA48613.orf	953	G C C G A G G C A G T G G C A A C C T G C A G G A G G A G T G T G A A A T G C T G G A A G G G T T C
GDNFRa1.orf	929	G C A G C A A C A G T G G G A A C G A C C T A G A A G A G T G C T T G A A A T T C T T G A A T T T C
GDNFRa2.orf	974	G T C G T G G C A G C G G G A A C A T T G G A G G A G G A G T G T G A A G T T C T C A G G G A C
DNA48613.orf	1003	T T C T C C C A C A A C C C C T G C C T C A C G G A G G C C A T T G C A G C T A A G A T G C G T T T
GDNFRa1.orf	979	T T C A A G G A C A A T A C A T G T C T T A A A A A T G C A A T T C A A G C C T T T G G C A A T G G
GDNFRa2.orf	1024	T T C A C C G A G A A C C C A T G C C T C C G G A A C G G C C A T C C A G G C C T T T G G C A A C G G
DNA48613.orf	1053	T C A C A G C C A A C T C T T C T C C C A G G A C T G G C C A C A C C C T A C C T T G C T G T G A
GDNFRa1.orf	1029	C T C C G A T T G T G A C C C G T G T G G C A G C C T T C C C A G T A C A G A C C C A C T G
GDNFRa2.orf	1074	C A C G G A C G T G A A C G T G T C C C C A A A A G G C C C T C G T T C C A G G C C A C C C A G G
DNA48613.orf	1103	T G G G C A C A C C A G A A T G A A A A A C C C T G C T G T G A G G G C C A C A G G C C O T G G G T G C C C
GDNFRa1.orf	1079	C C A C T A C C A C C A C T C G C C C T C C G G G T T A A G A A C A A A C C C T G G G G C C A G C A
GDNFRa2.orf	1124	C C C C T C G G G T G G A G A A G A C G C C T T C T T T G C C A G A T G A C C T C A G T G A C A G T
DNA48613.orf	1153	T C T C T T T C T C C T G C A C G G C T T C C C T T G A T T T C T G C T C C T G C A G C C T A T G G T A
GDNFRa1.orf	1129	G G G T C T G A G A A T G A A A T T C C C A C T C A T G T T T T G C C A C C C G T G T G C A A A T T T
GDNFRa2.orf	1174	A C C A G G C T T G G G G A C A G T G T C A T C A C C A C C T T G C A C G T C T G T C C A G G A G C A
DNA48613.orf	1203	G .
GDNFRa1.orf	1179	A C A G G C A C A G A A G G T G A A A T C C A A T T G T G C G G G C A A T A C A C A C C C T C T G T A
GDNFRa2.orf	1224	G G G G C T G A A G G C C A A C A A C T C C A A A G A G T T A A G C A T G T G C T T C A C A G A G C
GDNFRa1.orf	1229	T T T C C A A T G G T A A T T A T G A A A A A G A A G G T C T C G G G T G C T T C C A G C C A C A T A
GDNFRa2.orf	1274	T C A C G A C A A A A T A T C A T C C C A G G G G A G T A A C A A G G T G A T C A A A C C T A A C T C A
GDNFRa1.orf	1279	A C C C A C A A A A A T C A A T G G C T G C T C C T C C A A G G C T G T G G T C T G A G C C C A C T G C T
GDNFRa2.orf	1324	G G C C C C C A G G C A G A G C C A G A C C G T G G G C T G C C T T G A C C G T G C T G T C T G C C T
GDNFRa1.orf	1329	G G T C C T G G T G G T A A C C G C T C T G T C C A C C C T A T T A T C T T T A A C A G A A A C A T
GDNFRa2.orf	1374	G A T G C T G A A A C A G G C C T T G T A G -
GDNFRa1.orf	1379	C A T A G

F16JF5B

FIGURE 6

protein alignment



NORTHERN BLOTS

FIGURE 7

FIGURE 8



FIG. 9A

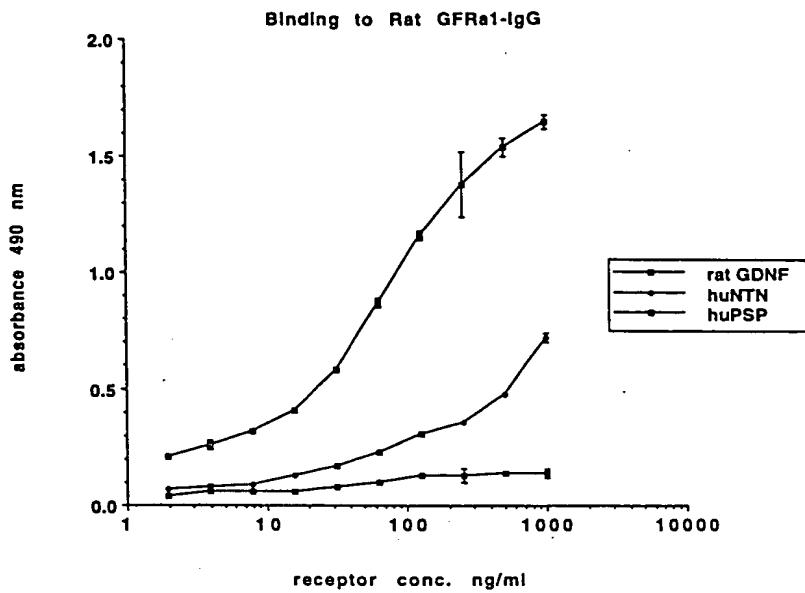


FIG. 9B

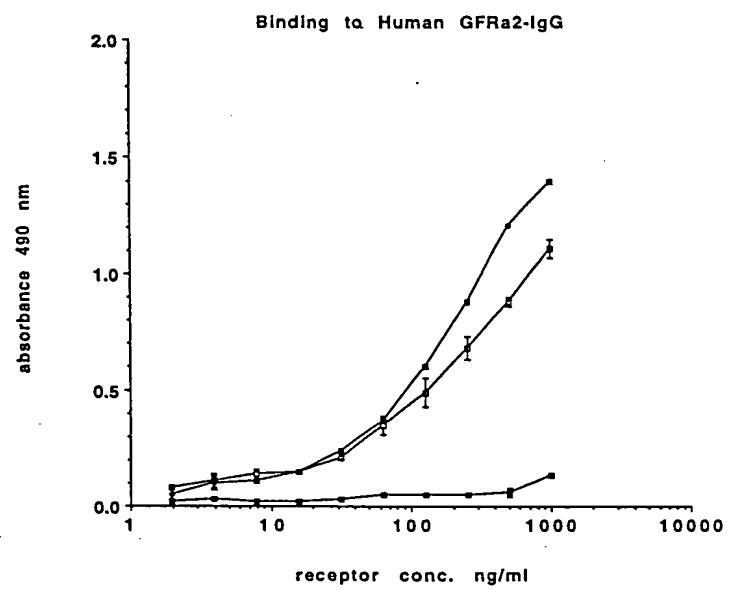
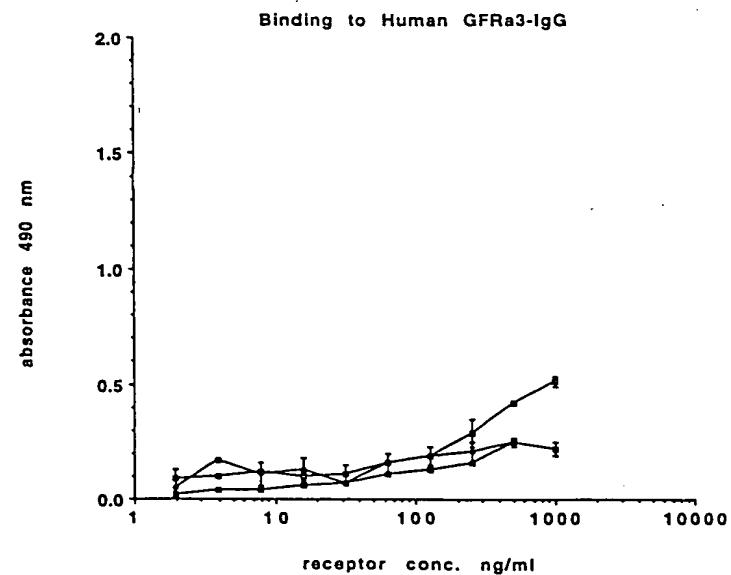


FIG. 9C



2
Proliferation of Ba/F3-GFR α 3-mpl cells in response to NTN and GDNF

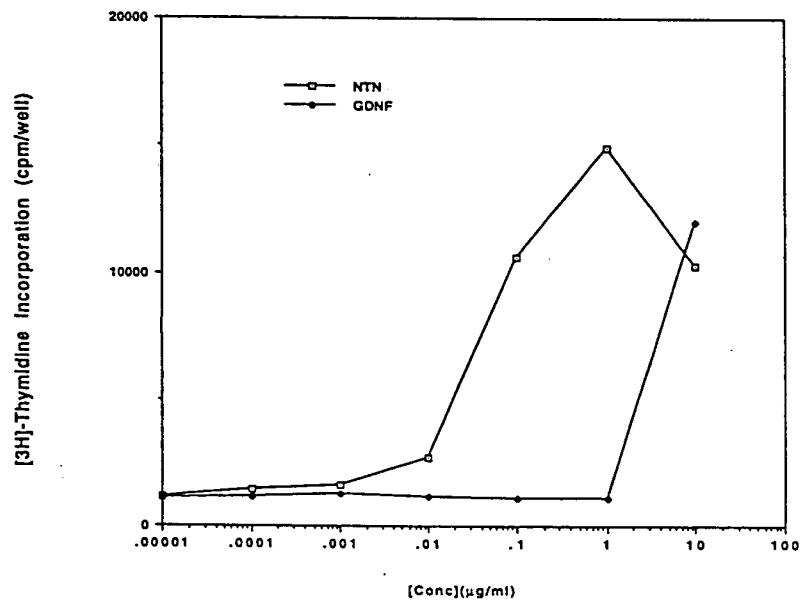


FIGURE 10

Phosphorylation of GFR_{a2}-Rse in response to NTN

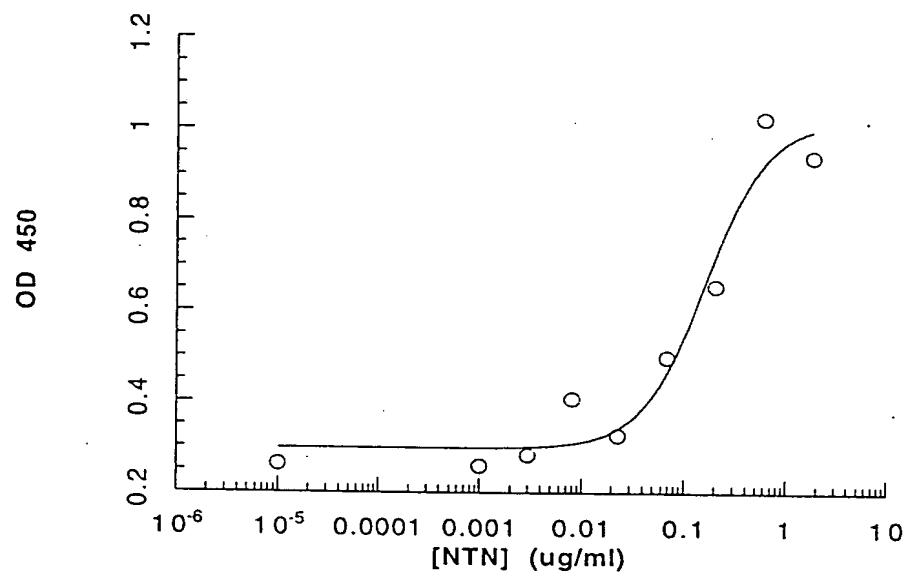


FIGURE 11

Stimulation of GFRa2 and GFRa3 by GDNF, NTN and PSN

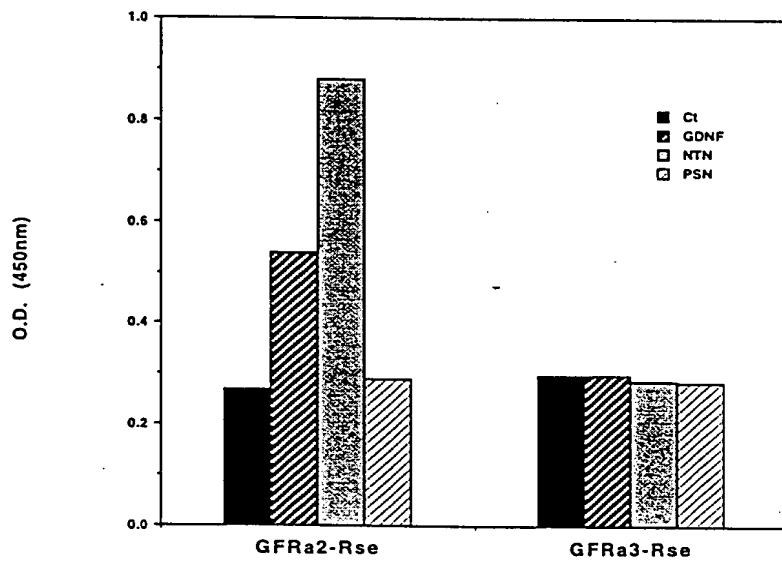


FIGURE 12

FIGURE 13

